

104090" 4E2E2350

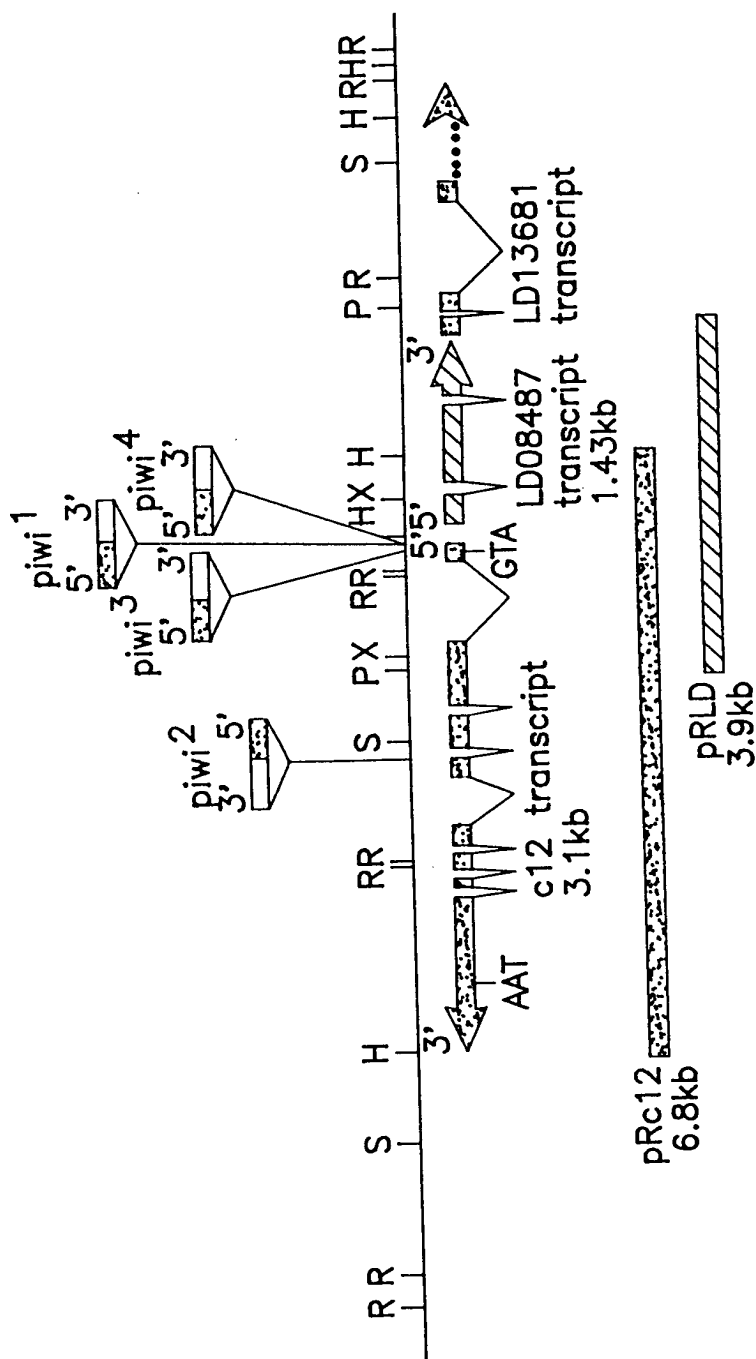


FIG. 1

[illegible]

FIG. 2

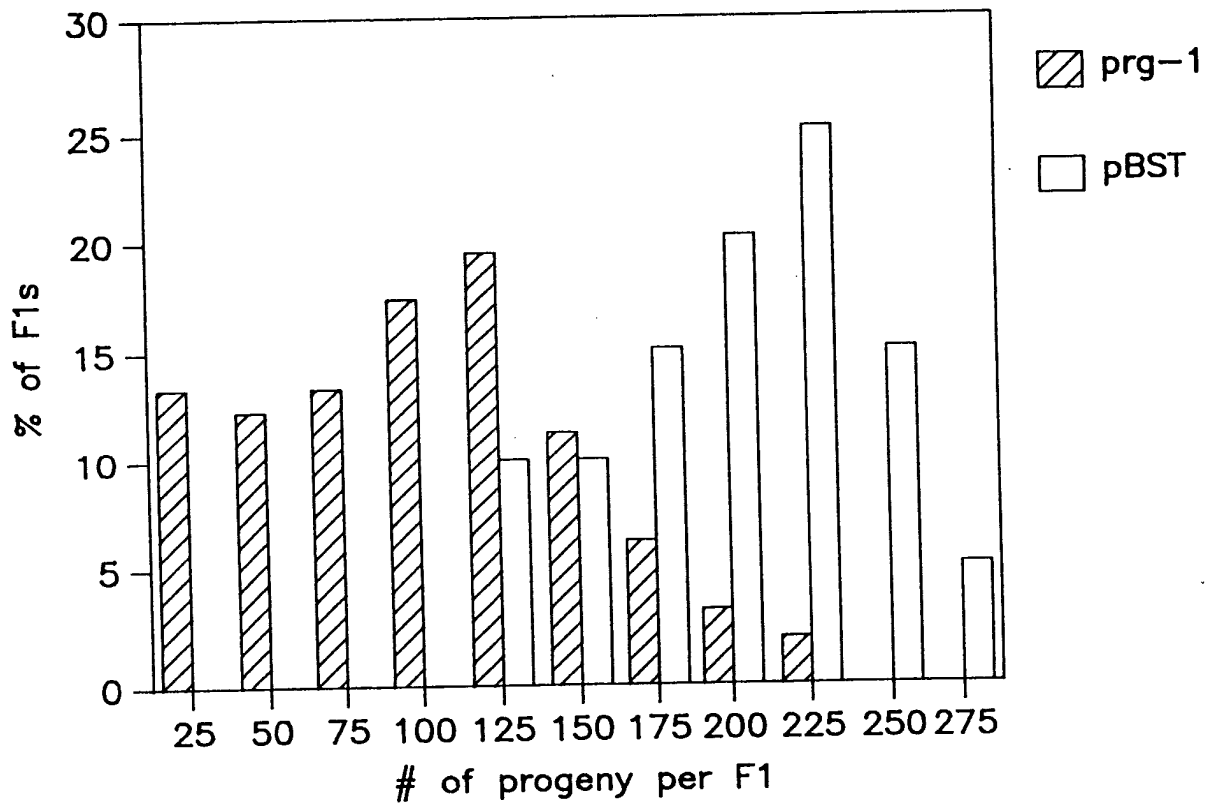


FIG. 3

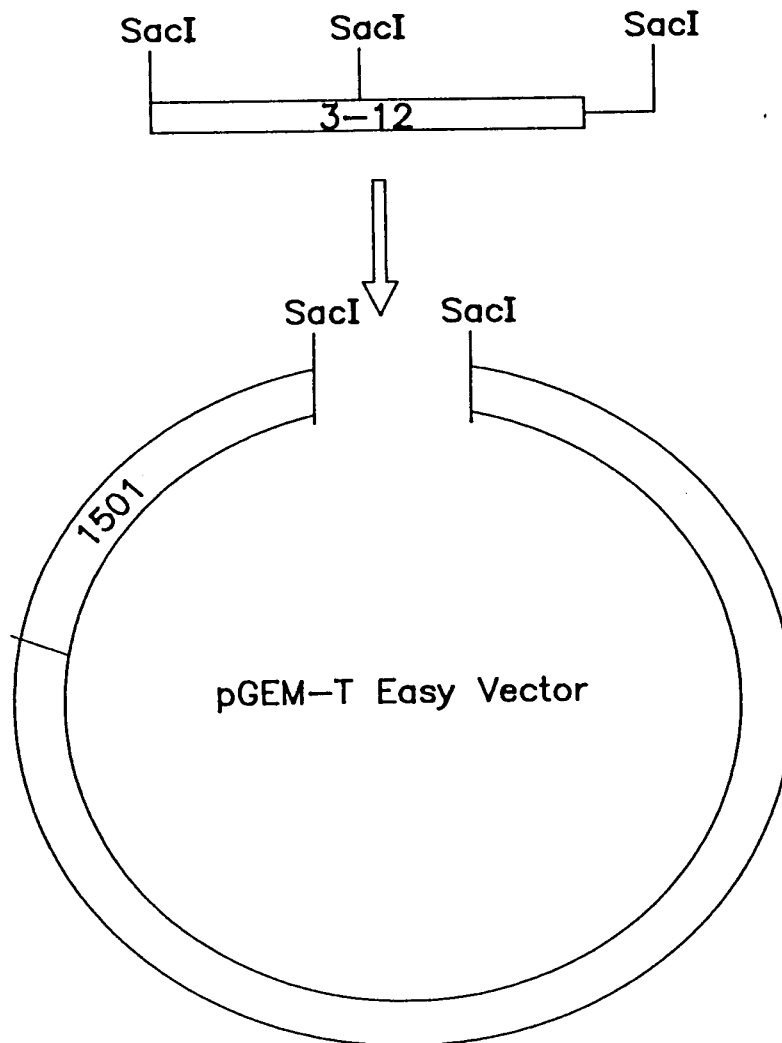
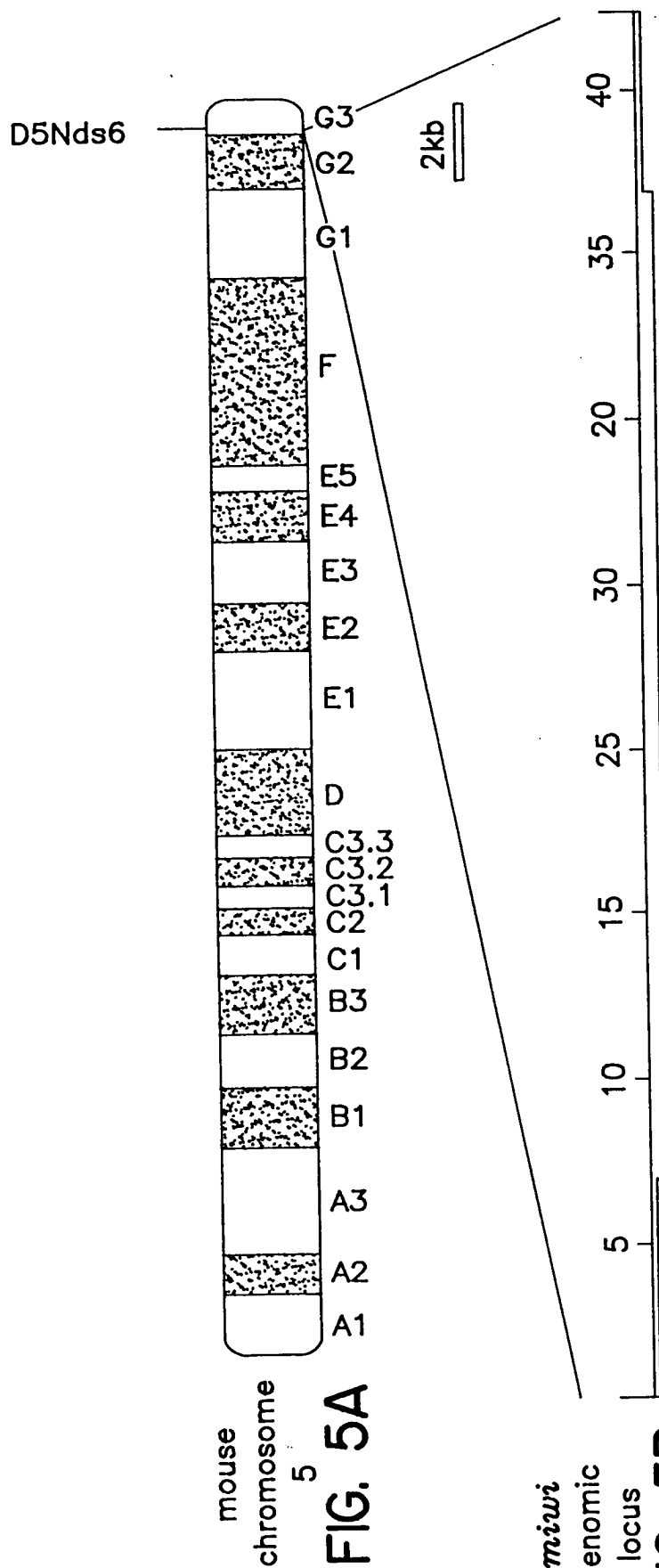


FIG. 4

03727 222360



*piwi*  
genomic  
locus

FIG. 5B

*piwi*  
cDNA  
(partial)

FIG. 5C

genomic  
clones

FIG. 5D

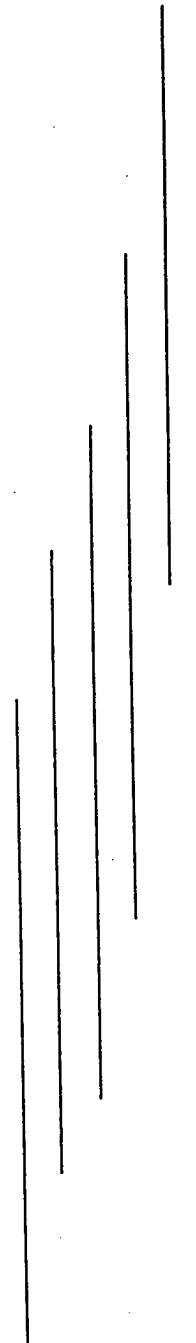
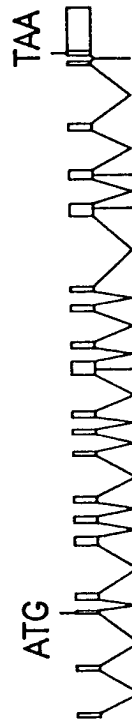


FIG. 6A

PIWI V EY Y L T K Y N I R I R D H N Q P L L I S K - N R D K A L K T N A S E L V V L I P E L C R V T G L N A E M R S N F Q L M R A M S S Y T R M 393  
PRG-1 K E Y F K N Q Y G I E I T V D D Q P I I I S E - G K P K Q P G - E P P Q V S Y I V P E L C F P T G L T D E M R K D F K M K E I A K H T R M 352  
PRG-2 K E Y F K N Q Y D I D I T D D E Q F I I I S E - G K P K Q P G - E P P Q V N Y I V P E L C F P T G L T D E M R K D F K M K E I A K H T R M 250  
MIWI L E Y Y R K Q Y N Q E I T D L K Q P V L V S Q P K R R R G P G G T L P G P A M L I P E L C Y L T G L T D K M R N D F N V M K D L A V H T R L 413  
HIWI L E Y Y R K Q Y N Q E I T D L K Q P V L V S Q P K R R R G P G G T L P G P A M L I P E L C Y L T G L T D K M R N D F N V M K D L A V H T R L 412

PIWI N P K Q R - - - T O R L R A E N H R L Q N T P E S V K V L - - - R D W N M E L D K N V T E V Q G R I I G Q Q N I V F H N G K V P - - - A G E 454  
PRG-1 S P Q Q R - - - L V E S R K L I V D L S K N E - - - K V M E C F K Y W G I S L G Q D L A N V Q A R V L K S E P L - - - Q G K K T Y - - - E G K 411  
PRG-2 S P Q Q R - - - L D E T R K L I T K L S Q N Q - - - T M M E C F Q Y W G I S L G Q D L A N V Q A R V L K S E P L - - - Q G K R Q Y - - - E G K 309  
MIWI T P E Q R Q R E V G R L I D Y I H K D D N V Q - - - R E L - - - R D W G L S F D S N L S F S G R I L Q S E K I - - - H Q G G K T F D Y N P Q 475  
HIWI T P E Q R Q R E V G R L I D Y I H K D D N V Q - - - R E L - - - R D W G L S F D S N L S F S G R I L Q T E K I - - - H Q G G K T F D Y N P Q 474

PIWI N A D W Q R H F R D Q R M L T T P S D G L D R W A V I A P Q R N S H E L - - - R T L L D S L Y R A A S G M G L R I R S P Q E F I I Y D D R T G 522  
PRG-1 Q A E W A R G V K E C G I Y R G S N - - - M T N W I V I G P G S G N S G L L S Q K F I E E A R R L G K I L Q V Q L G E P M C V P I R G I S P N 479  
PRG-2 Q A E W A R G V K E C G I Y R G S N - - - M T N W I V I G P G S G N S G L L A Q K F I A E A R N L G R T L Q V Q L G E P M C V K I N G I S P N 377  
MIWI F A D W S K E T R G A P L I S V K P - - - L D N W L L I Y T R R N Y E A A - - - N S L I Q N L F K V T P A M G I Q M K K A I M I E V - D D R T E 540  
HIWI F A D W S K E T R G A P L I S V K P - - - L D N W L L I Y T R R N Y E A A - - - N S L I Q N L F K V T P A M G M Q M R K A I M I E V - D D R T E 539

PIWI T Y V R A M D D C V R S - - - - D P K L I L C L V P N D N A E R Y S S I K K R G Y V D R A V P T Q - V V T L K T - - - - - T K N R S L M 580  
PRG-1 D Y L E G V K G A I K Q V D G E D I H M L V V M L A D D N K T R Y D S L K K F L C V E C P I P N Q C V N L R T L A G K S K D G G E N K N L G 549  
PRG-2 D Y L E G L K A A I K S V D G E E I H M L V V M L A D D N K T R Y D S L K K Y L C V E C P I P N Q C V N L R T L A G K S K D G G E N K N L G 447  
MIWI A Y L R A L Q Q K V T S - - - - D T Q I V V C L L S S N R K D K Y D A I K K Y L C T D C P T P S Q C V V A R T L - - - - - G K Q Q T V M 599  
HIWI A Y L R V L Q Q K V T A - - - - D T Q I V V C L L S S N R K D K Y D A I K K Y L C T D C P T P S Q C V V A R T L - - - - - G K Q Q T V M 598

PIWI S I A T K I A I Q L N C K L G Y T P W M I E L P L S G L M T I G F D I A K S T R D R K R A Y G A - - - L I A S M D - - - - - L - - - 636  
PRG-1 S I V L K I V L Q M I C K T G G A L W K V N I P L K N T M I V G Y D L Y H D S T L K G K T V G A C V S T T S N D - - - - - F T Q 608  
PRG-2 S I V L K I V L Q M I C K T G G A L W K V N I P L K S T M I V G Y D L Y H D S T L K G K T V G A C V S T T S N D - - - - - F T Q 506  
MIWI A I A T K I A L Q M N C K M G G E L W R V D M A L K L A M I V G I D C Y H D T T A G R R S I A G - - - F V A S I N E G M T R W F S R C V F - - - 666  
HIWI A I A T K I A L Q M N C K M G G E L W R V D I P L K L V M I V G I D C Y H D M T A G R R S I A G - - - F V A S I N E G M T R W F S R C I F - - - 665

FIG. 6B

FIG. 6C





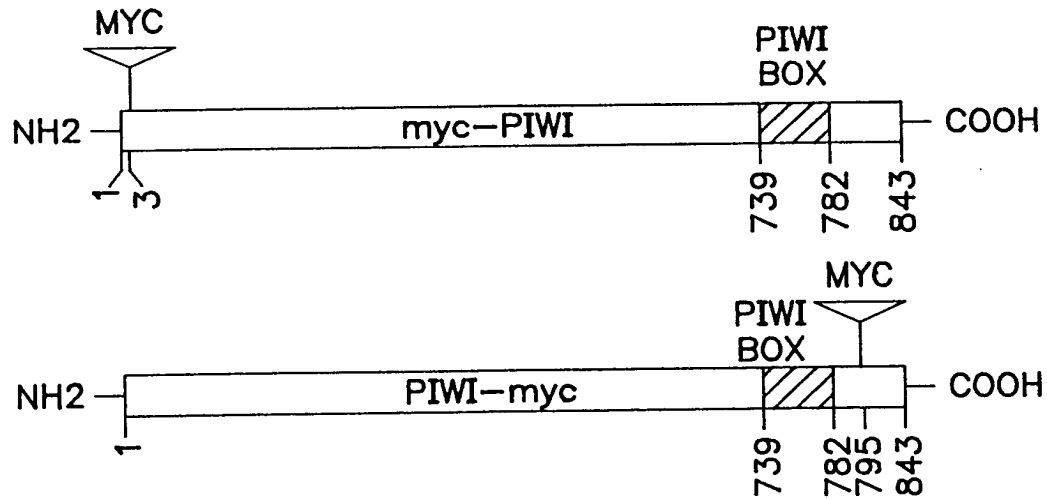


FIG. 8

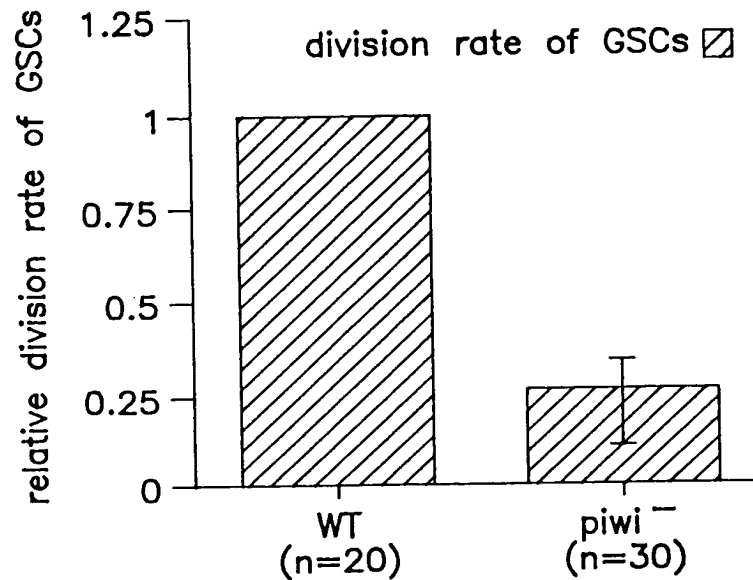


FIG. 9

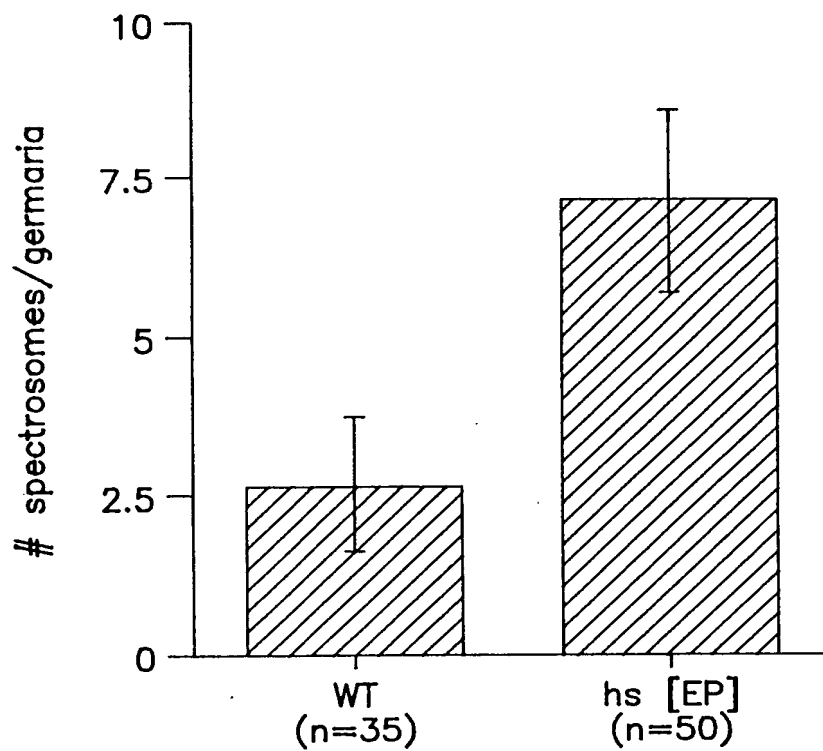


FIG. 10

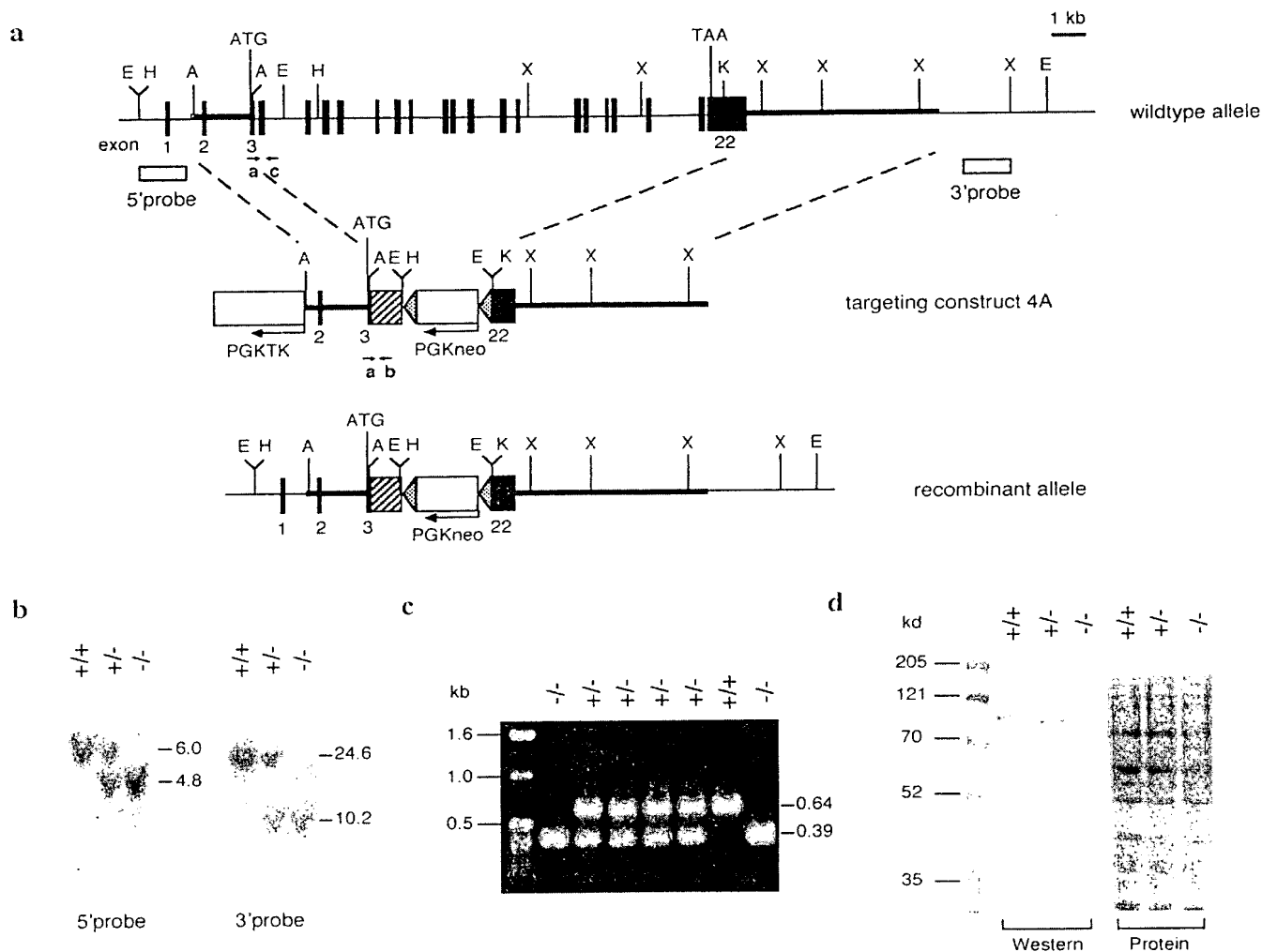


Figure 11

Figure 12

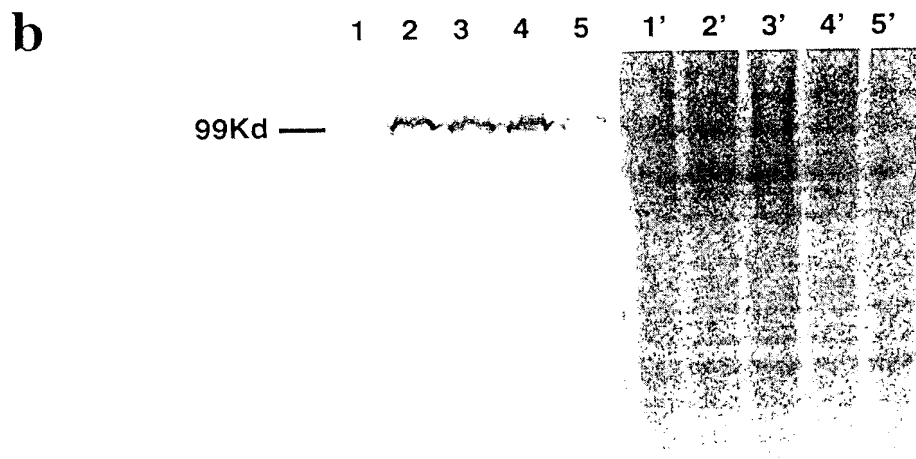
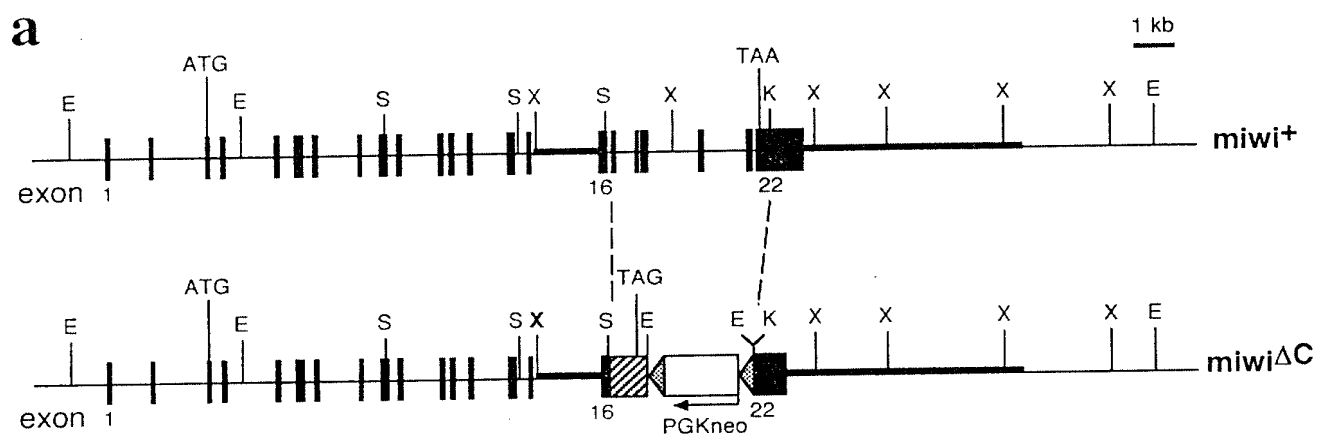


Figure 13

